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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/840,107	05/06/2004	Yong-Ho Yang	21C-0126	7269

23413 7590 07/19/2006

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EXAMINER
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TON, MINH TOAN T

ART UNIT	PAPER NUMBER
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2871

DATE MAILED: 07/19/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

10/840,107

Applicant(s)

YANG ET AL.

Examiner

Toan Ton

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 20 April 2006.  
2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.  
3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-5,8,9,16-21 and 35 is/are pending in the application.  
4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.  
5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.  
6) ☒ Claim(s) 1-5,8-9,16-21,35 is/are rejected.  
7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.  
8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.  
10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  
11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☐ All b) ☐ Some \* c) ☐ None of:  
1. ☐ Certified copies of the priority documents have been received.  
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  
\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)  
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)  
3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_.  
4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.  
5) ☐ Notice of Informal Patent Application (PTO-152)  
6) ☐ Other: \_\_\_\_\_.

***Claim Rejections - 35 USC § 102***

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-5, 8-9, 16-21 and 35 are rejected under 35 U.S.C. 102(e) as being anticipated by Ozawa et al (US 6956632).

Ozawa discloses a transfective LCD device comprising (see at least Figures 1-6): a transparent substrate including a reflective window 31 that reflects an ambient light and a transmissive window 32 that transmits an artificial light; an organic insulation layer disposed over the transparent substrate, the organic insulation layer being thinner gradually at a boundary between the transmissive window and the reflective window; a pixel electrode formed in the transmissive window and the reflective window; a reflective layer disposed over the organic insulation layer of the reflective window; a light-blocking pattern 9 disposed at the boundary between the transmissive window and the reflective window to prevent a light leakage; and a switching part (see at least col. 10, line 66 to col. 11, line 1) that is electrically connected to a gate line, a source line and the pixel electrode to apply an image signal to the pixel electrode.

Ozawa discloses the device comprising alignment film 12 formed by performing an aligning treatment such as a rubbing treatment (see at least Figures 1b-1c).

Ozawa discloses the second boundary inclined steeper than the first boundary (see at least

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Figures 1b-1c).

Ozawa discloses the light-blocking pattern disposed at the first and second boundaries (see at least Figures 1b-1c).

Ozawa discloses the light-blocking pattern having a width (about 9  $\mu\text{m}$ ) longer than a width of the light transmissive window (about 8 $\mu\text{m}$ ).

Ozawa discloses the organic insulation layer of the reflective window having a first thickness and the organic insulation layer of the transmissive window has a second thickness that is thinner than the first thickness (see at least Figures 1-6).

Ozawa discloses the gate line and the source line formed on a first surface of the transparent substrate and the light -blocking pattern formed on a second surface of the transparent substrate such that the light blocking pattern is substantially parallel with the source line (see at least Figures 1-6).

Ozawa discloses the use a storage capacitor electrode/line disposed on the transparent substrate such that the first storage electrode extended substantially parallel with the gate line (see at least Figure 16).

### ***Response to Arguments***

3. Applicant's arguments filed 04/20/06 have been fully considered but they are not persuasive.

Ozawa discloses a pixel electrode formed in the transmissive window and the reflective window (see at least Figures 1-6). The pixel electrode inherently comprises an electrode in the transmissive window and an electrode in the reflective window.

Ozawa discloses the second boundary inclined steeper than the first boundary (see at least Figures 1b-1c). Ozawa discloses the light-blocking pattern having a width (about 9 um) longer than a width of the light transmissive window (about 8um)

#### ***Conclusion***

4. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

#### ***Contact Information***

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Toan Ton whose telephone number is (571) 272-2303.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

July 6, 2006

  
**TOANTON**  
**PRIMARY EXAMINER**